

Title (en)

THERMAL FLOW METER AND ARRANGEMENT CONSISTING OF A PIPE AND THE THERMAL FLOW METER

Title (de)

THERMISCHES DURCHFLOSSMESSGERÄT UND ANORDNUNG MIT EINEM ROHR UND DEM THERMISCHEN DURCHFLOSSMESSGERÄT

Title (fr)

DÉBITMÈTRE THERMIQUE ET ARRANGEMENT COMPRENANT UN TUYAU ET LE DÉBITMÈTRE THERMIQUE

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Application

EP 16763032 A 20160908

Priority

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Abstract (en)

[origin: WO2017067700A1] The invention relates to a thermal flow meter, comprising a sensor having a metal sensor housing (1), which has a hollow body (2) for connecting to an insertion device and/or a pipe wall. The hollow body (2) has a base surface (11). The sensor housing (1) has at least a first and a second pin sleeve (3a, 3b), which protrude from the base surface (11), wherein the pin sleeves (3a, 3b) each have a longitudinal axis and an end face (13), wherein the two pin sleeves define a connection axis. Each of the two pin sleeves has a first section (8a), which has the end face (13) and a lateral surface. A first heater is arranged in the first pin sleeve (3a), in particular in the end section (8a) of said pin sleeve (3a), and a temperature sensor for determining the medium temperature is arranged in the second pin sleeve (3b), in particular in the end section (8a) of said pin sleeve (3b). The thermal flow meter is characterized in that the sensor housing (1) has at least a third pin sleeve (4), in which a second heater is arranged, and wherein the sensor housing has a flow obstacle (5), which is designed in such a way that the third pin sleeve is arranged at least partially in the flow shadow of said flow obstacle (5) in a first flow direction (D). The first flow direction (D) extends at an angle of 80-100° to the connection axis and the first flow direction is arranged on a plane that lies perpendicular to the longitudinal axes of the two aforementioned sensor sleeves and on which the connection axis lies.

IPC 8 full level

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CPC (source: EP US)

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